

IN THE CLAIMS

1. (Currently Amended) A method to reduce false switch hook detection in a line card coupled to a subscriber loop via a ring and tip terminal, comprising:

operating in a first state of the line card;

receiving a control signal;

disabling switch hook detection in the line card;

storing a value representative of a voltage level between the ring and tip terminal in response to receiving the control signal;

determining an initial condition of a second state of the line card; and

AI operating in the second state of the line card in response to receiving the control signal, wherein the second state begins to operate from the determined initial condition; and

~~activating the switch hook detection in the line card.~~

2. (Original) The method of claim 1, further including providing a ringing signal to the subscriber loop.

3. (Original) The method of claim 2, wherein the ringing signal is provided in response to the ringing signal crossing ~~a voltage at a ring and tip ring terminal of the line card~~ the stored voltage value.

4. (Original) The method of claim 2, wherein receiving the control signal comprises receiving a ringing control signal.

5. (Original) The method of claim 4, wherein operating in the first state comprises operating in at least one of a standby state and an active state of the line card.

6. (Original) The method of claim 5, wherein determining the initial condition of the second state includes determining the initial condition of the ringing state of the line card.

7. (Original) The method of claim 6, wherein determining the initial condition of the second state comprises determining the initial condition based on a ratio of a full scale current value in the first state and a full scale current value in the second state.

8. (Currently Amended) The method of claim 12, ~~further including storing a voltage between a ring and tip terminal of the line card~~ further activating the switch hook detection in the line card in response to providing the ringing signal.

9. (Original) The method of claim 1, wherein receiving the control signal comprises receiving a control signal to stop ringing providing that ring trip has not occurred.

10. (Original) The method of claim 9, wherein operating in the first state comprises operating in a ringing state of the line card.

11. (Original) The method of claim 10, wherein operating in the second state comprises operating in at least one of a standby state and an active state of the line card.

12. (Original) The method of claim 11, wherein determining an initial condition of the second state of the line card comprises setting the initial condition to a value less than a switch hook threshold.

13. (Original) The method of claim 12, wherein the second state begins to operate from the determined initial condition includes adjusting a current to the subscriber loop.

14. (Currently Amended) The method of claim ~~12~~, wherein receiving the control signal further comprises receiving a ring trip detection signal to stop ringing.

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15. (Currently Amended) The method of claim ~~14~~, further comprising stopping the ringing signal in response to the ringing signal crossing the stored voltage value. ~~wherein operating in the first state of the line card further comprises operating in a ringing state of the line card.~~

16. (Currently Amended) The method of claim 1, wherein operating in the first state of the line card further comprises operating in a ringing state of the line card and wherein operating in the second state of the line card further comprises operating in an active state of the line card.

17. (Currently Amended) The method of claim 1, wherein determining an initial condition of the second state of the line card further comprises setting the initial condition to a

value larger than a switch hook threshold and wherein the second state begins to operate from the determined initial condition includes adjusting a current to the subscriber loop.

18. (Currently Amended) The method of claim 1, wherein the value is retrievably stored, and further storing at least one of adaptive echo parameter, cancellation parameter, and filter coefficient. ~~wherein the second state begins to operate from the determined initial condition includes adjusting a current to the subscriber loop.~~

AJ 19. (Currently Amended) An apparatus to reduce false switch hook detection, the apparatus capable of operating in at least a first and a second state, comprising:

~~switch hook detection logic~~ detector; and

~~logic~~ a processor adapted to:

receive a control signal;

store a value representative of a voltage level between a ring and tip terminal in response to receiving the control signal;

determine an initial condition of the second state; and

operate in the second state in response to receiving the control signal, wherein the second state begins to operate from the determined initial condition; ~~and~~

~~activate the switch hook detection logic.~~

20. (Currently Amended) The apparatus of claim 19, the ~~logic~~ processor further adapted to provide a ringing signal to the a subscriber loop in response to the ringing signal crossing the stored voltage value.

21. (Currently Amended) The apparatus of claim 20, wherein the logic-processor adapted to receive a control signal comprises the logic-processor adapted to receive a ringing control signal.

22. (Currently Amended) The apparatus of claim 21, wherein the processorlogic adapted to operate in the first state comprises operating in at least one of a standby state and an active state.

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23. (Currently Amended) The apparatus of claim 22, wherein the processorlogic adapted to determine the initial condition of the second state includes the processorlogic adapted to determine the initial condition of the ringing state.

24. (Currently Amended) The apparatus of claim 23, wherein the processorlogic adapted to determine the initial condition of the second state comprises the processorlogic adapted to determine the initial condition based on a ratio of a full scale current value in the first state and a full scale current value in the second state.

25. (Currently Amended) The apparatus of claim ~~19~~20, ~~the apparatus comprising a ring and tip terminal, the apparatus,~~ wherein the processor is further including logic adapted to activate the switch hook detection in the line card in response to providing the ringing signal ~~store a voltage between a ring and tip terminal.~~

26. (Currently Amended) The apparatus of claim 19, wherein the processorlogic adapted to receive the control signal comprises the processorlogic adapted to receive a control signal to stop ringing.

27. (Currently Amended) The apparatus of claim 26, wherein the processorlogic is adapted to stop the ringing signal in response to the ringing signal crossing the stored voltage value~~operate in the first state comprises the logic adapted to operate in a ringing state.~~

A) 28. (Currently Amended) The apparatus of claim 27, wherein the processor adapted to operate in the first state comprises the processor adapted to operate in a ringing state and wherein the processorlogic adapted to operate in the second state comprises the processorlogic adapted to operate in at least one of a standby state and an active state.

29. (Currently Amended) The apparatus of claim 28, wherein the processorlogic adapted to determine the initial condition of the second state comprises setting the initial condition to a value less than a switch hook threshold.

30. (Original) The apparatus of claim 29, wherein the second state begins to operate from the determined initial condition includes adjusting a current to the subscriber loop.

31. (Currently Amended) A line card, comprising:
a subscriber line interface circuit coupled to a subscriber loop; and

a processor coupled to the subscriber line interface circuit, wherein the processor is adapted to:

operate in a first state of the line card;

receive a control signal;

store a value representative of a voltage level between a ring and tip terminal in response to receiving the control signal;

interrupt switch hook detection in the line card;

determine an initial condition of a second operating state of the line card;

AI operate in the second state of the line card in response to receiving the control signal, wherein the second state begins to operate from the determined initial condition; and

activate the switch hook detection in the line card.

32. (Original) The line card of claim 31, wherein the subscriber line interface circuit is a voltage-feed subscriber line interface circuit.

33. (Currently Amended) The line card of claim 31, wherein the processor further adapted to provide a ringing signal to the subscriber loop in response to the ringing signal crossing the stored voltage value.

34. (Currently Amended) The line card of claim 31, wherein the processor adapted to receive a control signal comprises the ~~logic~~ processor adapted to receive a ringing control signal.

35. (Original) The line card of claim 34, where the processor adapted to operate in the first state comprises operating in at least one of a standby state and an active state of the line card.

36. (Currently Amended) An apparatus to reduce false switch hook detection in a line card coupled to a subscriber loop, comprising:

means for operating in a first state of the line card;

means for receiving a control signal;

means for disabling switch hook detection in the line card;

means for storing a value representative of a voltage level between a ring and tip terminal in response to receiving the control signal;

means for determining an initial condition of a second operating state of the line card; and

means for operating in the second state of the line card in response to receiving the control signal, wherein the second state begins to operate from the determined initial condition; and

~~means for activating the switch hook detection in the line card.~~

37. (Currently Amended) A method to reduce false switch hook detection in a line card coupled to a subscriber loop, comprising:

operating in a first state of the line card;

determining if a ring trip occurs;

disabling switch hook detection in the line card in response to determining that the ring trip has occurred;

determining an initial condition of a second state of the line card;

operating in the second state of the line card in response to determining the ring trip,
wherein the second state begins to operate from the determined initial condition; and
activating the switch hook detection in the line card.

AI 38. (Currently Amended) An apparatus to reduce false switch hook detection in a line card coupled to a subscriber loop, comprising:

means for operating in a first state of the line card;

means for determining if a ring trip occurs;

means for disabling switch hook detection in the line card in response to determining that the ring trip has occurred;

means for determining an initial condition of a second state of the line card;

means for operating in the second state of the line card in response to determining the ring trip, wherein the second state begins to operate from the determined initial condition; and

means for activating the switch hook detection in the line card.
